

# The Flawless Edges and Throwpower of Electrocoating

Vastly improve your corrosion protection by electrocoating with **CathoGuard®** after pretreatment.



The superior chemistry of **CathoGuard** offers an unrivaled value proposition that vastly increases your efficiency and ability to coat recessed areas while reducing your material use up to 20%.

## You will marvel at:

- ⊕ The uniformity of the coating
- ⊕ The incredible edge protection
- ⊕ The caliber of the throw power
- ⊕ The optimal flow

 **BASF**  
We create chemistry

**Chemetall**  
expect more ⊕

# Electrocoat

- + Coat every crevice to provide the finest corrosion protection available today
- + Start with **Oxsilan®** advanced pretreatment or traditional iron and zinc pretreatments from BASF | Chemetall
- + The next step is to electrocoat
- + Cover every edge with the most efficient possible throw power
- + Optimize with this complete process to reduce environmental impact, with tin-free, lead-free, and HAPS-free options available



## Current Portfolio of CathoGuard Technologies



**CathoGuard 525**  
high edge,  
excellent appearance,  
high throwpower



**CathoGuard 570**  
high edge,  
excellent appearance,  
tin-free, high film build



**CathoGuard 800**  
high edge,  
excellent appearance,  
tin-free



**CathoGuard 960**  
high edge, excellent  
appearance, tin-free,  
broader baking  
window



## How electrocoating works

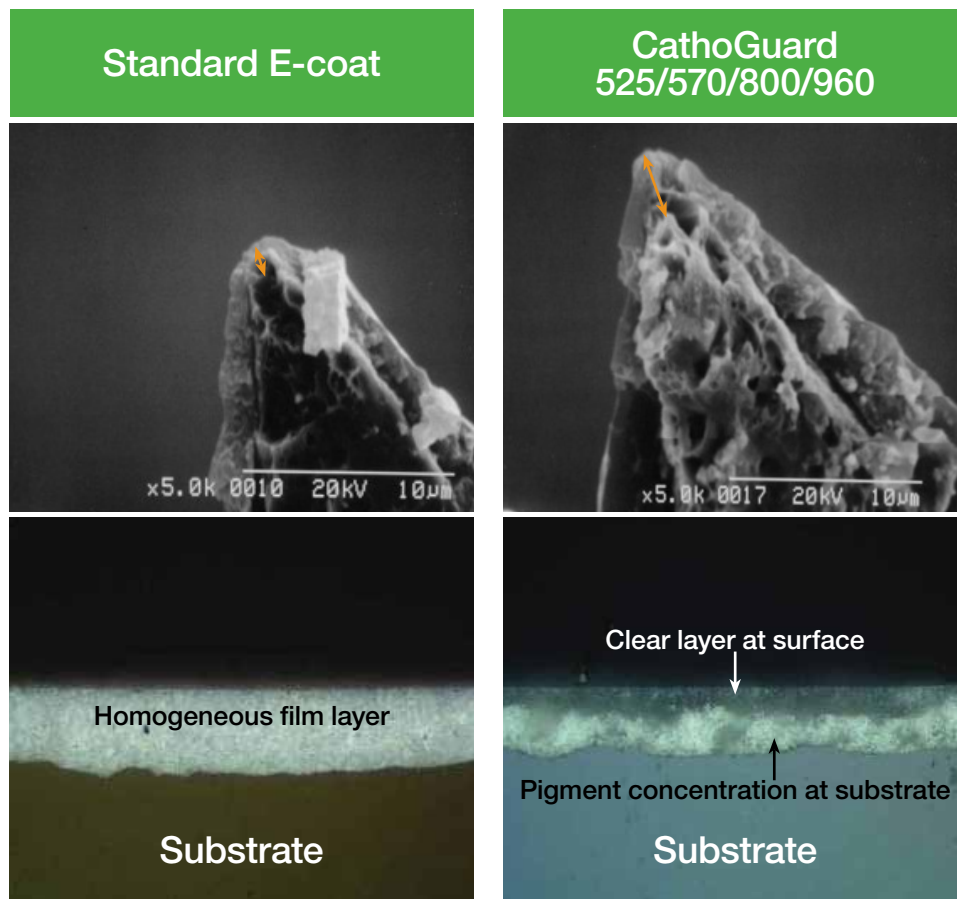
After the metal components have been pretreated with zinc phosphate or Oxsilan, the e-coat is applied. The component is dipped in a bath with a waterborne dispersion (consisting of cross-linking agents and binders) for approximately two to four minutes. Then a direct voltage of 250 to 500 volts is applied to the component and a counter electrode located in the bath. Electrically charged paint particles are deposited on the component and your desired film thickness is formed as a protective coating. The primary objective is corrosion protection.

## CathoGuard 525, 570, 800, and 960 — A new standard in relation to appearance

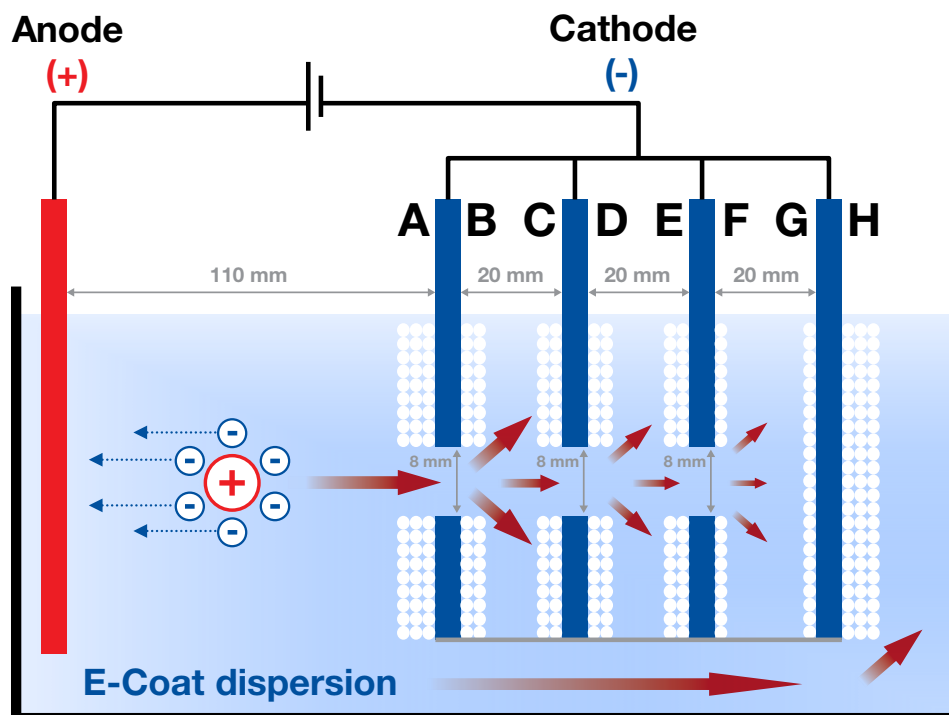
- ⊕ High throw power — reduces consumption
- ⊕ More stable gloss and smoothness at different curing temperatures
- ⊕ Excellent corrosion resistance and improved edge protection
- ⊕ Better workability provides reduction in run-outs, bridging, and less water/UF-drip marks



## CathoGuard Technology — Excellent appearance and high edge coverage



## CathoGuard 525 throw power simulation



G/A throw power — >60% (Single dip — 3 minutes)



*We are dedicated to global sustainability*

## Sustainability Benefits

### + Reduce environmental impact:

CathoGuard 525, 570, 800, and 960 are lead-free and tin-free, with low VOC. CathoGuard 525 is lead-free, with low VOC

### + Increase health and safety:

CathoGuard 525, 570, 800, and 960 improve throw-power, provide outstanding corrosion protection, and achieve a smooth surface with excellent edge coverage

+ **Less paint** and lower cure due to higher throw power

+ **Reduce cost:** CathoGuard 525, 570, 800, and 960 reduce process costs by reducing material use up to 20%

## We've got you covered!

### + BASF Coating E-Coat Production Sites

We produce globally where our customers are present



***Cut it. Clean it. Coat it. Control it. Conserve it.® with us!***

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